

SAN JUAN RIVER BASIN

09379050 LUKACHUKAI CREEK NEAR LUKACHUKAI, AZ

LOCATION--Lat 36°28'39", long 109°20'58" (unsurveyed), Apache County, Hydrologic Unit 14080204, in Navajo Indian Reservation, on left bank 8 mi northwest of Lukachukai, AZ.

DRAINAGE AREA--Unknown.

PERIOD OF RECORD--Nov. 1999 to current year.

GAGE--Water-stage recorder. Elevation of gage is 5,750 ft above sea level, from topographic map.

REMARKS--Records poor. Many small diversions upstream for irrigation and livestock.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 4,000 ft³/s Sept. 10, 2002, at 1345, gage height, 8.17 ft, from an extension of the rating curve. Minimum daily discharge, no flow for many days.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------------|------|--------------------------------|------------------|
| Oct. 2 | 2330 | *375 | *3.74 |

Minimum daily discharge, <0.01 ft³/s for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|-------|-------|------|------|-------|--------|-------|-------|-------|-------|--------|
| 1 | 0.03 | 0.06 | 0.72 | e1.0 | e1.3 | 3.0 | 3.0 | 0.42 | <0.01 | <0.01 | <0.01 | <0.01 |
| 2 | 58 | 0.22 | 0.45 | 1.2 | e1.3 | 3.2 | 4.0 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 |
| 3 | 42 | 0.46 | 0.17 | 1.7 | e1.2 | 3.1 | 11 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 |
| 4 | 1.7 | 0.45 | 0.21 | 1.3 | e1.2 | 3.2 | 9.6 | 0.06 | <0.01 | <0.01 | <0.01 | 13 |
| 5 | 0.10 | 0.43 | e0.33 | e1.3 | e1.2 | 3.2 | 39 | 0.03 | <0.01 | <0.01 | 0.01 | 0.97 |
| 6 | 0.02 | 0.47 | e0.45 | e1.3 | e1.2 | 2.9 | 11 | 0.03 | <0.01 | <0.01 | 14 | 0.07 |
| 7 | 0.01 | 0.59 | 0.55 | e1.2 | e1.2 | 3.2 | 19 | 0.03 | <0.01 | <0.01 | 10 | 0.07 |
| 8 | 0.02 | 0.63 | 0.67 | e1.2 | e1.2 | 3.3 | 24 | 0.03 | <0.01 | <0.01 | <0.01 | 0.07 |
| 9 | <0.01 | 0.72 | 0.46 | e1.1 | e1.2 | 3.1 | 11 | 0.02 | <0.01 | <0.01 | <0.01 | 0.07 |
| 10 | <0.01 | 0.68 | 0.20 | e1.0 | e1.2 | 3.2 | 4.3 | 0.02 | <0.01 | <0.01 | <0.01 | 0.08 |
| 11 | 0.07 | 0.73 | 0.25 | e1.0 | e1.3 | 3.2 | 1.2 | 0.02 | <0.01 | <0.01 | <0.01 | 0.07 |
| 12 | 0.03 | 0.90 | 0.84 | e1.0 | e1.4 | 3.1 | 0.46 | 0.01 | <0.01 | <0.01 | <0.01 | 0.07 |
| 13 | 0.02 | 1.4 | 0.48 | e1.0 | e1.4 | 3.1 | 0.18 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 |
| 14 | <0.01 | 0.79 | e0.63 | e1.0 | e1.5 | 3.0 | 0.18 | <0.01 | <0.01 | 0.32 | 0.02 | 0.03 |
| 15 | <0.01 | 0.53 | 0.56 | e1.0 | e2.0 | 3.1 | 0.23 | <0.01 | <0.01 | 15 | 0.21 | 0.02 |
| 16 | 0.01 | 0.51 | 0.51 | e1.0 | e3.0 | 3.1 | 0.24 | <0.01 | <0.01 | 1.1 | <0.01 | 0.03 |
| 17 | 0.02 | 0.72 | 0.51 | e1.2 | 9.2 | 3.0 | 0.21 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 |
| 18 | 0.02 | 0.53 | 0.56 | 1.3 | 10 | 2.9 | 0.18 | <0.01 | <0.01 | 6.9 | <0.01 | 0.05 |
| 19 | 0.02 | 0.45 | 0.56 | 1.2 | 5.9 | 3.0 | 0.17 | <0.01 | <0.01 | 1.1 | 0.62 | 48 |
| 20 | 0.02 | 0.72 | 0.56 | e1.2 | 3.4 | 3.0 | 0.30 | <0.01 | <0.01 | <0.01 | 0.05 | 2.1 |
| 21 | 0.02 | 0.77 | e0.90 | e1.2 | 3.7 | 6.6 | 0.28 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 |
| 22 | 0.02 | 0.58 | e0.85 | 1.2 | 3.3 | 12 | 0.39 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| 23 | 0.03 | 0.33 | e0.64 | 1.3 | 3.6 | 10 | 0.40 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 |
| 24 | 0.05 | 0.33 | e0.74 | 2.0 | 3.3 | 17 | 0.56 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| 25 | 0.04 | 0.76 | e0.69 | e1.2 | 3.2 | 11 | 0.24 | <0.01 | <0.01 | 10 | <0.01 | 0.01 |
| 26 | 0.03 | 0.90 | e0.78 | e1.2 | 3.1 | 5.6 | 0.19 | <0.01 | <0.01 | 18 | <0.01 | <0.01 |
| 27 | 0.09 | 0.66 | e0.85 | e1.2 | 3.2 | 3.1 | 0.09 | <0.01 | <0.01 | 1.3 | <0.01 | <0.01 |
| 28 | 0.09 | 0.60 | e0.92 | e1.2 | 3.2 | 2.9 | 0.12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 29 | 0.22 | 0.56 | e0.93 | e1.3 | 3.1 | 2.6 | 0.18 | <0.01 | 18 | <0.01 | <0.01 | 123 |
| 30 | 0.06 | 2.4 | e0.92 | e1.3 | -- | 3.4 | 0.47 | <0.01 | 0.28 | <0.01 | <0.01 | 18 |
| 31 | 0.05 | -- | e0.92 | 1.3 | -- | 2.8 | -- | <0.01 | -- | <0.01 | <0.01 | -- |
| TOTAL | 102.83 | 19.88 | 18.81 | 37.6 | 81.0 | 138.9 | 142.17 | 1.14 | 18.56 | 53.95 | 25.15 | 205.98 |
| MEAN | 3.32 | 0.66 | 0.61 | 1.21 | 2.79 | 4.48 | 4.74 | 0.04 | 0.62 | 1.74 | 0.81 | 6.87 |
| MAX | 58 | 2.4 | 0.93 | 2.0 | 10 | 17 | 39 | 0.42 | 18 | 18 | 14 | 123 |
| MIN | 0.01 | 0.06 | 0.17 | 1.0 | 1.2 | 2.6 | 0.09 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| MED | 0.03 | 0.59 | 0.56 | 1.2 | 2.0 | 3.1 | 0.40 | 0.01 | 0.01 | 0.01 | 0.01 | 0.05 |
| AC-FT | 204 | 39 | 37 | 75 | 161 | 276 | 282 | 2.3 | 37 | 107 | 50 | 409 |

CAL YR 2003 TOTAL 1094.20 MEAN 3.00 MAX 104 MIN 0.00 MED 0.67 AC-FT 2170
WTR YR 2004 TOTAL 845.97 MEAN 2.31 MAX 123 MIN 0.01 MED 0.32 AC-FT 1680

< Actual value is known to be less than the value shown
e Estimated